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STATUS OF THE CLAIMS

This claim listing shall supercede any prior listing of the claims.

1-30 (Canceled)

- 31. (Previously presented) A composition comprising an active Clostridial neurotoxin joined to a neuropharmacological agent; wherein the active neurotoxin possesses mouse lethality of 3.3 \times 10° LD₅₀/mg or greater and has binding specificity for a target nerve cell, is internalizable by the target nerve cell and has enzymatic activity for a target substrate selected from the group consisting of SNAP-25, VAMP, and Cellubrevin.
- (Previously presented) The composition of claim 31 32. wherein the active Clostridial neurotoxin is an active botulinum neurotoxin.
- 33: (Canceled)
- 34. (Previously presented) The composition of claim 31 wherein said neuropharmacological agent is an intracellular acting drug.
- (Previously presented) The composition of claim 32 35. wherein said Clostridial neurotoxin is selected from the

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group consisting of a botulinum toxin A, a botulinum toxin B, a botulinum toxin C1, a botulinum toxin D, a botulinum toxin E, a botulinum toxin F, and a botulinum toxin G.

- 36. (Previously presented) The composition of claim 31 wherein said neuropharmacological agent is selected from the group consisting of a protein synthesis toxin, an inhibitor of neurotransmitter release, neuronal calcium channel blocker, a ribozyme and an oligonucleotide.
- 37. (Previously presented) The composition of claim 31 wherein the active Clostridial neurotoxin is an active tetanus neurotoxin.
- 38. (Previously presented) A pharmaceutical composition for treatment of a neuromuscular dysfunction in a mammal, comprising an active Clostridial neurotoxin joined to a neuropharmacological agent; and a pharmaceutically acceptable excipient; wherein the active neurotoxin possesses mouse lethality of 3.3 x 10⁵ LD₅₀/mg or greater and has binding specificity for a target nerve cell, is internalizable by the target nerve cell and has enzymatic activity for a target substrate selected from the group consisting of SNAP-25, VAMP and Cellubrevin.
- 39. (Previously presented) The pharmaceutical composition of claim 38 wherein the active Clostridial neurotoxin is an active botulinum neurotoxin.

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- of claim 38 wherein the active Clostridial neurotoxin is selected from the group consisting of a botulinum toxin A, a botulinum toxin B, a botulinum toxin C1, a botulinum toxin D, a botulinum toxin E, a botulinum toxin F, and a botulinum toxin G.
- 41. (Previously presented) The composition of claim 38 wherein the active Clostridial neurotoxin is an active tetanus neurotoxin.
- 42. (Previously presented) The pharmaceutical composition of claim 38 wherein the neuromuscular dysfunction is characterized by uncontrollable muscle spasms.
- 43. (Previously presented) The composition of either of claims 31 or 38 wherein the neuropharmacological agent is an inhibitor of neurotransmitter release.
- 44. (Previously presented) The composition of either of claims 31 or 38 wherein the neuropharmacological agent is an active ingredient for treatment of botulism or tetanus.
- 45. (Previously presented) The composition of either of claims 31 or 38 wherein the neuropharmacological agent is selected from the group consisting of a GABA agonist, a neuronal calcium channel agonist, an adenosine agonist, a glutamate antagonist, a protein synthesis toxin, a zincdependent protease inhibitor, a neuronal growth factor, an

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antiviral agent, a nicotinic antagonist, a neuronal calcium channel blocker, an acetylcholine esterase inhibitor, a potassium channel activator, a vasamicol inhibitor, a ribozyme and a transcribable gene.

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